Academic Performance Index (API): 2002 Base API

Assessments Included in the 2002 Base API

The 2002 Base Academic Performance Index (API) will include the following assessments:

- Standardized Testing and Reporting (STAR) program:
    - Stanford 9, all content areas
    - California Standards Test in English Language Arts (CST ELA), including the writing assessment at grades 4 and 7
    - California Standards Test in Mathematics (CST MATH)
    - California Standards Test in Social Science (CST SS), grades 10-11
- California High School Exit Examination (CAHSEE), grades 9 and 10 (in 2003, grades 10 and 11; in 2004, grades 10, 11, and 12)

Indicator Weights—January 2003 Update

On January 8, 2003, the State Board of Education (SBE) adopted revised indicator weights for the 2002 Base Academic Performance Index (API). The SBE reduced the amount of weight given to the norm-referenced test (NRT) in the calculation of the API. For grades 2-8, the Stanford 9 will receive 20 percent of the weight in the API and the California Standards Test (CST) 80 percent of the weight. For grades 9-12, the Stanford 9 will receive 12 percent of the weight in the API, the CST 73 percent of the weight, and the California High School Exit Examination (CAHSEE) 15 percent of the weight.

The tables on the following two pages show the indicator weights for specific API components and revised indicator weights for the 2002-2003 API cycle for grades 2-8 and for grades 9-11. The norm-referenced test (NRT) will change from the Stanford 9 to the California Achievement Test, Form 6, (CAT 6) beginning with the 2003 STAR administration. The CST in English Language Arts includes the results of the Writing Assessment in grades 4 and 7.

Academic Performance Index (API) Indicator Weights

The Base API (reported in January or February each year) is used to generate statewide and similar schools rankings as well as API growth targets. The Growth API (reported in the fall each year) is used to determine eligibility for the awards programs. The Growth API has the same indicator weights and is calculated in exactly the same manner as its corresponding Base API. The State Board of Education revised the indicator weights for the 2002-2003 API cycle in January 2003.

Elementary and Middle Schools (Grades 2-8)

Content Area	2000-2001 API Cycle	2001-2002 API Cycle		2002-2003 API Cycle		2002-2003 API Cycle	
	2000 Base API and 2001 Growth API	**2001 Base API and 2002 Growth API**		**Previously Published 2002-2003 Weights**		**2002 Base API and 2003 Growth API Final Weights***	
	NRT	NRT	CST	NRT	CST	NRT	CST
English Language Arts (ELA)							
ELA NRT		24%		24%		12%	
(Reading)	30%	(12%)		(12%)		(6%)	
(Language)	15%	(6%)		(6%)		(3%)	
(Spelling)	15%	(6%)		(6%)		(3%)	
ELA CST			36%		36%		48%
Mathematics							
Math NRT	40%	40%		16%		8%	
CST MATH					24%		32%
TOTAL	**100%**	**64%**	**36%**	**40%**	**60%**	**20%**	**80%**

* Adopted by State Board of Education January 8, 2003

NRT = Norm-referenced test
CST = California Standards Test

Academic Performance Index (API) Indicator Weights

The Base API (reported in January or February each year) is used to generate statewide and similar schools rankings as well as API growth targets. The Growth API (reported in the fall each year) is used to determine eligibility for the awards programs. The Growth API has the same indicator weights and is calculated in exactly the same manner as its corresponding Base API. The State Board of Education revised the indicator weights for the 2002-2003 API cycle in January 2003.

High Schools (Grades 9-11)

Content Area	2000-2001 API Cycle 2000 Base API and 2001 Growth API	2001-2002 API Cycle 2001 Base API and 2002 Growth API		2002-2003 API Cycle Previously Published 2002-2003 Weights			2002-2003 API Cycle 2002 Base API and 2003 Growth API Final Weights*		
	NRT	NRT	CST	NRT	CST	CAHSEE	NRT	CST	CAHSEE
English Language Arts (ELA)									
ELA NRT		16%		6%			6%		
(Reading)	20%	(8%)		(3%)			(3%)		
(Language)	20%	(8%)		(3%)			(3%)		
ELA CST			24%		24%			35%	
CAHSEE ELA						10%			10%
Mathematics									
Math NRT	20%	20%		3%			3%		
CST MATH					12%			18%	
CAHSEE MATH						5%			5%
Science									
Science NRT	20%	20%		20%			3%		
Social Science									
Social Science NRT	20%	20%							
CST Social Science					20%			20%	
TOTAL	**100%**	**76%**	**24%**	**29%**	**56%**	**15%**	**12%**	**73%**	**15%**

* Adopted by State Board of Education January 8, 2003

NRT = Norm-referenced test; CST = California Standards Test

Inclusions/Exclusions

District Mobility Exclusion. For the 2002 Base API and thereafter, test scores of pupils who were counted as part of a school district's enrollment in the October California Basic Educational Data System's (CBEDS) data collection for the current fiscal year and were continuously enrolled during that year will be included in the test results reported in the API. Test scores of pupils not included in the October CBEDS count and continuously enrolled since that time will not be included.

Students Tested with Accommodations on CSTs. Results of students taking the California Standards Tests with accommodations will be included in the 2002 Base API. However, CST results from any student who tests "out-of-level" (below grade level) will be counted as "Far Below Basic" for API purposes.

California Standards Test in English-Language Arts (CST ELA)

The CST ELA writing scores for grades 4 and 7 will be incorporated into the 2002 Base API. A record must have a CST ELA performance level score for the CST ELA to be calculated as part of the API.

California Standards Test in Mathematics (CST MATH)

Under the standards-based component of the STAR, all California students, grades 2-7, take the CST MATH for their respective grade level. However, the CST MATH test-taking patterns for students in grades 8-11 are more complicated. Students at each grade level of 8-11 do not take the same test. Instead, each student is administered a CST MATH according to the mathematics course the student takes during the school year of testing.

In 2002, the STAR administered the CST MATH in the form of the following tests, according to grade level or discipline:

- Grade level tests, grades 2 through 7
- California General Mathematics Standards Test (CGMST), grade 8 or 9[1]
- Algebra I, Geometry, or Algebra II, grades 8 through 11
- Integrated 1, Integrated 2, or Integrated 3, grades 8 through 11
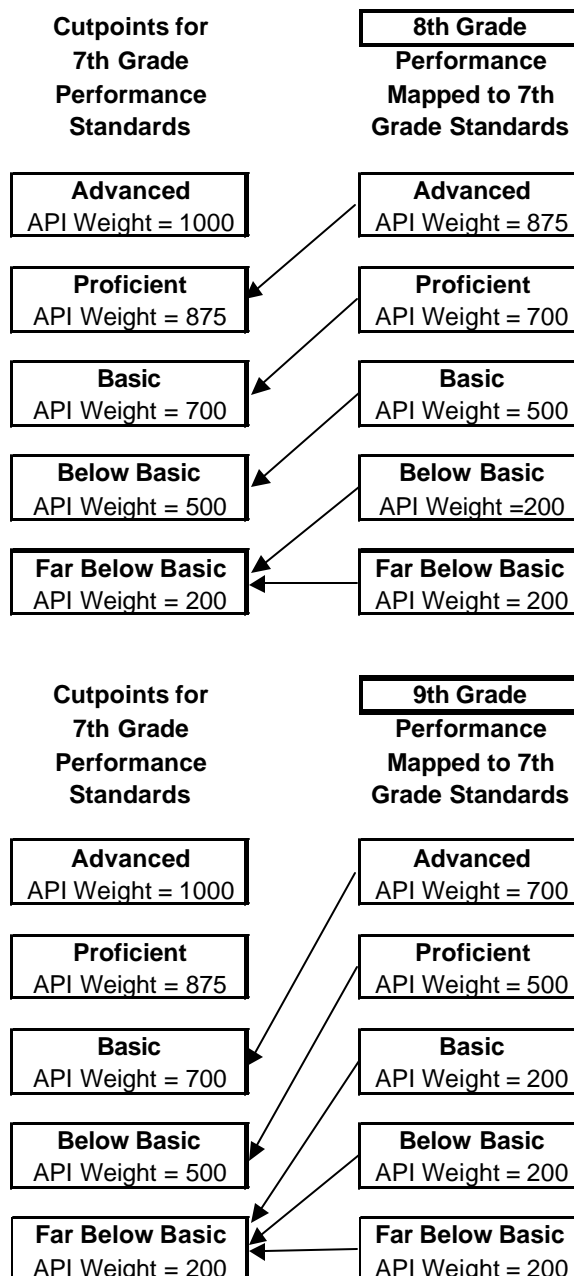- High School Mathematics Standards Test (Summative Test), grades 9 through 11

The CST MATH refers to all of these tests. A record must have a CST MATH performance level score for the CST MATH to be calculated as part of the API.

California General Mathematics Standards Test. The California General Mathematics Standards Test (CGMST) is given to all 8th or 9th graders not taking one of the other mathematics standards tests and is based on 6th and 7th grade content standards. To adjust for the difference in standards, the API performance level weights for results from the CGMST will be calculated by mapping 8th and 9th grade performance on the CGMST to the grade 7 CST MATH performance levels, lowering the API credit by one performance level for 8th graders and two performance levels for 9th graders. This will limit the top performance level weight of 8th graders to 875 and of 9th graders to 700. The following chart on Page 5 illustrates the mapping.

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[1] All grade 8 and 9 students not taking one of the course-specific math courses are required to take the CGMST.

California General Mathematics Standards Test
8th and 9th Grade Performance
Mapped to 7th Grade Performance Standards
With Corresponding API Weights

Cutpoints for 7th Grade Performance Standards	8th Grade Performance Mapped to 7th Grade Standards
Advanced API Weight = 1000	**Advanced** API Weight = 875
Proficient API Weight = 875	**Proficient** API Weight = 700
Basic API Weight = 700	**Basic** API Weight = 500
Below Basic API Weight = 500	**Below Basic** API Weight = 200
Far Below Basic API Weight = 200	**Far Below Basic** API Weight = 200

Cutpoints for 7th Grade Performance Standards	9th Grade Performance Mapped to 7th Grade Standards
Advanced API Weight = 1000	**Advanced** API Weight = 700
Proficient API Weight = 875	**Proficient** API Weight = 500
Basic API Weight = 700	**Basic** API Weight = 200
Below Basic API Weight = 500	**Below Basic** API Weight = 200
Far Below Basic API Weight = 200	**Far Below Basic** API Weight = 200

Students without a CST MATH score, grades 10-11: In order for the API to account for students who take no CST MATH, a credit of 200 will be assigned for the performance level weighting factor for any record without a CST MATH performance level in grades 10 and 11.

Percent of Pupils in Each Performance Level for CST MATH. To determine the percentages of pupils in each performance level for the CST MATH component of the API, the number of pupils in each performance level must be summed across all CST MATH tests. The chart on Page 6 illustrates how the sums and percentages are determined.

Example for a School with Grades 2-12

How to Determine the Percent of Pupils in Each Performance Level for the California Standards Test in Mathematics

California Standards Test Performance Levels	Grade Level Tests, grades 2-7	General Math Test	Algebra I	Geometry	Algebra II	Integrated 1	Integrated 2	Integrated 3	High School Math Test	Untested, grades 10-11 [1]	Total CST MATH	
	No. of Pupils in Each Level	No. of Pupils in Each Level	No. of Pupils in Each Level	No. of Pupils in Each Level	No. of Pupils in Each Level	No. of Pupils in Each Level	No. of Pupils in Each Level	No. of Pupils in Each Level	No. of Pupils in Each Level	No. of Pupils in Each Level	No. of Pupils in Each Level	% of Pupils in Each Level
A	B	C	D	E	F	G	H	I	J	K	B+C+D+E+F+G+H+I+J+K	
5 Advanced	22	9	20	11	6	5	6	2	3		84	12%
4 Proficient	34	16	49	22	13	7	10	7	4		162	24%
3 Basic	56	10	47	38	15	9	6	3	5		189	28%
2 Below Basic	44	14	39	17	14	5	4	2	4		143	21%
1 Far Below Basic	36	5	23	9	4	5	3	1	1		87	13%
1 Untested										9	9	1%
Total	192	54	178	97	52	31	29	15	17	9	674	100%

[1] A student in grade 10 or 11 is considered untested in CST MATH if the student's STAR Student Answer Document has no CST MATH performance level and the student record shows no parent waiver or Individualized Education Program (IEP) exemption for CST MATH.

California Standards Test in Social Science (CST SS)

In 2002 the STAR administered the CST SS in the following grades:

- Grade 9 (history-social science)
- Grade 10 (world history)
- Grade 11 (U.S. history)

In 2003, the STAR will drop both the Stanford 9 NRT social studies test as well as the grade 9 history standards test. At that same time, STAR will add a grade 8 cumulative history-social science standards test. All students in the grades tested are required to participate in these assessments unless otherwise exempted.

To preserve the comparability of the 2002 Base API with the 2002-2003 Growth API, the 2002 Base API will exclude results from the Stanford 9 social science test for grades 9-11 and the CST SS for grade 9. Instead, the 2002 Base API will include the results from the 2002 CST SS in grades 10 and 11 only.

The CST SS results from both grades 10 and 11 will be aggregated into one high school history/social science indicator. The percentage of pupils scoring at a particular performance level will be calculated by dividing the number of pupils scoring at a particular performance level on the 10th or 11th grade test by the number of pupils taking either test.

California High School Exit Examination (CAHSEE)

Test administration. The CAHSEE administration is in the process of being phased-in over several years. The following chart shows the testing phase-in by grade level.

GRADE LEVEL	YEAR			
	2001	**2002**	**2003**	**2004**
Grade 9	Optional	N/A	N/A	N/A
Grade 10	N/A	Non-passers	All students	All students
Grade 11	N/A	N/A	Non-passers	Non-passers
Grade 12	N/A	N/A	N/A	Non-passers

In 2001, CAHSEE administration was optional, and only 9th graders were tested. Thereafter, the test is no longer administered to 9th graders. In 2002, the CAHSEE was administered to only 10th graders who did not take the test in 2001 or who took the test but did not pass one or both portions (English-Language Arts and Mathematics). Students retook only the portion of the test that they had previously failed. In 2003, the test will be administered to all 10th graders and to 11th graders who did not take the test in 2002 or who took the test but did not pass one or both portions. In 2004, the test will be administered to all 10th graders and to 11th and 12th graders who did not take the test or who took the test but did not pass one or both portions.

Two separate API indicators for CAHSEE. Performance on the English-Language Arts test and the Mathematics test of CAHSEE will be included in the API as two separate indicators.

Calculation of the API. Students who pass a portion of the CAHSEE will contribute a weighting factor of 1000 points to the API for each CAHSEE indicator passed (English-Language Arts or Mathematics), regardless of their grade level.

For the 2002 Base API, 10th grade students who passed a portion of the CAHSEE will contribute 1000 points to the API indicator calculation for each portion passed. Each 10th grader who failed a portion of the test in 2002 will contribute a weighting factor of 200 points to the indicator calculation for that portion failed. In addition, students who were 9th graders in 2001 and who passed a portion of the test in 2001 will contribute a weighting factor of 1000 points for each portion passed.

In future years all students who pass a portion of the test will contribute 1000 points to the API indicator calculation for each CAHSEE portion passed. All 10th graders who fail the test will contribute a weighting factor of 200 points. Eleventh and 12th grade test takers who fail a portion will not contribute points to the indicator and will not be included in calculations for that indicator.

The CAHSEE indicator score will be the arithmetic average of all of the contributions.

Elementary or middle schools with CAHSEE. Consistent with current API methodology, schools with grade configurations that include grade levels in both API grade configuration segments will receive an API that will be the average of the APIs for the grade configuration segments weighted by the number of pupils with valid scores in the segments. For example, for a 7-12 school with CAHSEE results, the API will be the weighted average of the APIs for grades 2-8 and for grades 9-12.

Scores included in the API. Results of students taking the CAHSEE with accommodations will be included in the 2002 Base API, but results of students taking the CAHSEE with modifications will not be included. Students who have no score on the exam will be counted as not passing the exam (10th grade only).

Charts Illustrating How to Calculate the 2002 Base API

The summary charts on Pages 9, 10, and 11 illustrate how to calculate the 2002 Base API for three grade span types (2-6, 7-8, and 9-12). The Scale Calibration Factors (SCFs) reflect 2001 values; exact values for 2002 will be determined only after generation of the 2002 Base API file in February 2003.

CHART 1

How to Calculate the 2002 Base API for an Elementary School (grades 2-6)

California Standards Test

	A	B	English Language Arts		Mathematics	
			C	D	E	F
	Performance Levels	Weighting Factors	Percent of Pupils in Each Level	Weighted Score in Each Level (B x C)	Percent of Pupils in Each Level	Weighted Score in Each Level (B x E)
5	Advanced	1000	8%	80.00	9%	90.00
4	Proficient	875	23%	201.25	22%	192.50
3	Basic	700	35%	245.00	33%	231.00
2	Below Basic	500	21%	105.00	22%	110.00
1	Far Below Basic	200	13%	26.00	14%	28.00

		ELA	Math
Content area weights			
Calif. Standards Test CST		48%	32%
Content area weights			
Stanford 9 NRT		12%	8%
Portion of API		60%	40%

			ELA	Math
a	Indicator Score	a x	657.25	651.50
b	Indicator Weight	b =	48%	32%
c	Total Weighted Score for Indicator	c	315.48	208.48 +

+

Stanford 9

English-Language Arts (ELA)

	A	B	Reading		Language		Spelling		Mathematics	
			C	D	E	F	G	H	K	L
	Performance Bands	Weighting Factors	Percent of Pupils in Each Band	Weighted Score in Each Band (B x C)	Percent of Pupils in Each Band	Weighted Score in Each Band (B x E)	Percent of Pupils in Each Band	Weighted Score in Each Band (B x G)	Percent of Pupils in Each Band	Weighted Score in Each Band (B x K)
5	80-99th NPR	1000	13%	130.00	17%	170.00	12%	120.00	19%	190.00
4	60-79th NPR	875	20%	175.00	20%	175.00	19%	166.25	30%	262.50
3	40-59th NPR	700	29%	203.00	30%	210.00	32%	224.00	22%	154.00
2	20-39th NPR	500	20%	100.00	19%	95.00	24%	120.00	16%	80.00
1	1-19th NPR	200	18%	36.00	14%	28.00	13%	26.00	13%	26.00

			Reading	Language	Spelling	Mathematics	Scale Calibration Factor*	2002 API Base
a	Indicator Score	a x	644.00	678.00	656.25	712.50		
b	Indicator Weight	b =	6%	3%	3%	8%		
c	Total Weighted Score for Indicator	c	38.64 +	20.34 +	19.69 +	57.00 +	1.64 =	661

*This Scale Calibration Factor (SCF) is for illustrative purposes only.

Chart 2

How to Calculate the 2002 Base API for a Middle School (grades 7-8)

California Standards Test

	A	B		English Language Arts		Mathematics	
				C	D	E	F
	Performance Levels	Weighting Factors		Percent of Pupils in Each Level	Weighted Score in Each Level (B x C)	Percent of Pupils in Each Level	Weighted Score in Each Level (B x E)
5	Advanced	1000		8%	80.00	9%	90.00
4	Proficient	875		23%	201.25	23%	201.25
3	Basic	700		35%	245.00	34%	238.00
2	Below Basic	500		21%	105.00	20%	100.00
1	Far Below Basic	200		13%	26.00	14%	28.00

		ELA	Math
Content area weights Calif. Standards Test CST		48%	32%
Content area weights Stanford 9 NRT		12%	8%
Portion of API		60%	40%

a Indicator Score	a (x)	657.25	657.25
b Indicator Weight	b (=)	48%	32%
c Total Weighted Score for Indicator	c	315.48 **+**	210.32 **+**

Stanford 9

English-Language Arts (ELA)

	A	B		Reading		Language		Spelling		Mathematics	
				C	D	E	F	G	H	K	L
	Performance Bands	Weighting Factors		Percent of Pupils in Each Band	Weighted Score in Each Band (B x C)	Percent of Pupils in Each Band	Weighted Score in Each Band (B x E)	Percent of Pupils in Each Band	Weighted Score in Each Band (B x G)	Percent of Pupils in Each Band	Weighted Score in Each Band (B x K)
5	80-99th NPR	1000		6%	60.00	17%	170.00	11%	110.00	16%	160.00
4	60-79th NPR	875		26%	227.50	23%	201.25	23%	201.25	25%	218.75
3	40-59th NPR	700		33%	231.00	28%	196.00	24%	168.00	22%	154.00
2	20-39th NPR	500		20%	100.00	19%	95.00	20%	100.00	21%	105.00
1	1-19th NPR	200		15%	30.00	13%	26.00	22%	44.00	16%	32.00

								2002 API Base
a Indicator Score	a (x)	648.50	688.25	623.25	669.75	Scale Calibration Factor*		
b Indicator Weight	b (=)	6%	3%	3%	8%			
c Total Weighted Score for Indicator	c	38.91 **+**	20.65 **+**	18.70 **+**	53.58 **+**	-1.22 **=**	**656**	

* This Scale Calibration Factor (SCF) is for illustrative purposes only.

CHART 3

How to Calculate the 2002 Base API for a High School (grades 9-12)

California Standards Test

		English Language Arts		Mathematics		Social Science	
A	B	C	D	E	F	G	H
Performance Levels	Weighting Factors	Percent of Pupils in Each Level	Weighted Score in Each Level (B x C)	Percent of Pupils in Each Level	Weighted Score in Each Level (B x E)	Percent of Pupils in Each Level	Weighted Score in Each Level (B x E)
5 Advanced	1000	8%	80.00	9%	90.00	5%	50.00
4 Proficient	875	23%	201.25	20%	175.00	17%	148.75
3 Basic	700	35%	245.00	32%	224.00	35%	245.00
2 Below Basic	500	21%	105.00	23%	115.00	28%	140.00
1 Far Below Basic	200	13%	26.00	10%	20.00	15%	30.00
1 Untested	200	0%	0.00	6%	12.00	0%	0.00

CAHSEE

		CAHSEE ELA		CAHSEE MATH	
A	B	C	D	E	F
Performance Levels	Weighting Factors	Percent of Pupils in Each Level	Weighted Score in Each Level (B x C)	Percent of Pupils in Each Level	Weighted Score in Each Level (B x E)
Pass	1000	54%	540.00	43%	430.00
No Pass	200	46%	92.00	57%	114.00

CST indicators:

	ELA	Math	Soc Sci	CAHSEE ELA	CAHSEE Math
a Indicator Score	657.25	636.00	613.75	632.00	544.00
b Indicator Weight	35%	18%	20%	10%	5%
c Total Weighted Score for Indicator	230.04	114.48	122.75	63.20	27.20

(230.04 + 114.48 + 122.75 + 63.20 + 27.20 +)

Stanford 9

English-Language Arts (ELA)

		Reading		Language		Mathematics		Science	
A	B	C	D	E	F	G	H	I	J
Performance Bands	Weighting Factors	Percent of Pupils in Each Band	Weighted Score in Each Band (B x C)	Percent of Pupils in Each Band	Weighted Score in Each Band (B x E)	Percent of Pupils in Each Band	Weighted Score in Each Band (B x G)	Percent of Pupils in Each Band	Weighted Score in Each Band (B x I)
5 80-99th NPR	1000	9%	90.00	12%	120.00	21%	210.00	14%	140.00
4 60-79th NPR	875	17%	148.75	26%	227.50	21%	183.75	22%	192.50
3 40-59th NPR	700	23%	161.00	23%	161.00	20%	140.00	22%	154.00
2 20-39th NPR	500	23%	115.00	22%	110.00	19%	95.00	21%	105.00
1 1-19th NPR	200	28%	56.00	17%	34.00	19%	38.00	21%	42.00

	Reading	Language	Mathematics	Science
a Indicator Score	570.75	652.50	666.75	633.50
b Indicator Weight	3%	3%	3%	3%
c Total Weighted Score for Indicator	17.12	19.58	20.00	19.01

(17.12 + 19.58 + 20.00 + 19.01 +)

	ELA	Math	Sci	Soc Sci
CST	35%	18%		20%
CAHSEE	10%	5%		
NRT	6%	3%	3%	
Portion of API	51%	26%	3%	20%

Scale Calibration Factor*: -3.90

2002 API Base = 629

* This Scale Calibration Factor (SCF) is for illustrative purposes only.

California Department of Education, Policy and Evaluation Division
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